

Release notes for ENDF/B Development n-051\_Sb\_123  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=5131, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=5131, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      109 TO      148
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=5131, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=5131, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      109
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 2, MT=151 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5131, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      150
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 1 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      560
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      585
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 3 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 3
SECTION 3/ 3 NOT IN DIRECTORY      RECORD NUMBER      610
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 4 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      635
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 16 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 16  
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 659

8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 17  
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 672

9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 22  
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 679

10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 28  
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 687

11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 51 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 51  
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 697

12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 52 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 52  
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 721

13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 53 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 53  
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 744

14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 54 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 54  
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 766

15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 55 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 55 | RECORD NUMBER | 788 |
| SECTION 3/ 55 NOT IN DIRECTORY            |               |     |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 56 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 56 | RECORD NUMBER | 809 |
| SECTION 3/ 56 NOT IN DIRECTORY            |               |     |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT= 91 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5131, MF= 3, MT= 91 | RECORD NUMBER | 830 |
| SECTION 3/ 91 NOT IN DIRECTORY            |               |     |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT=102 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5131, MF= 3, MT=102 | RECORD NUMBER | 850 |
| SECTION 3/102 NOT IN DIRECTORY            |               |     |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT=103 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5131, MF= 3, MT=103 | RECORD NUMBER | 875 |
| SECTION 3/103 NOT IN DIRECTORY            |               |     |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT=104 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5131, MF= 3, MT=104 | RECORD NUMBER | 894 |
| SECTION 3/104 NOT IN DIRECTORY            |               |     |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT=105 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5131, MF= 3, MT=105 | RECORD NUMBER | 907 |
| SECTION 3/105 NOT IN DIRECTORY            |               |     |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 3, MT=107 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5131, MF= 3, MT=107 | RECORD NUMBER | 918 |
| SECTION 3/107 NOT IN DIRECTORY            |               |     |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 2 (0): Directory (b)*

- |  |               |     |
|--|---------------|-----|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 2 | RECORD NUMBER | 932 |
| SECTION 4/ 2 NOT IN DIRECTORY            |               |     |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 16 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 16 | RECORD NUMBER | 1234 |
| SECTION 4/ 16 NOT IN DIRECTORY            |               |      |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 17 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 17 | RECORD NUMBER | 1289 |
| SECTION 4/ 17 NOT IN DIRECTORY            |               |      |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 22 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 22 | RECORD NUMBER | 1312 |
| SECTION 4/ 22 NOT IN DIRECTORY            |               |      |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 28 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 28 | RECORD NUMBER | 1337 |
| SECTION 4/ 28 NOT IN DIRECTORY            |               |      |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 51 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 51 | RECORD NUMBER | 1378 |
| SECTION 4/ 51 NOT IN DIRECTORY            |               |      |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 52 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 52 | RECORD NUMBER | 1671 |
| SECTION 4/ 52 NOT IN DIRECTORY            |               |      |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 53 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 53 | RECORD NUMBER | 1953 |
| SECTION 4/ 53 NOT IN DIRECTORY            |               |      |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 54 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 54 | RECORD NUMBER | 2219 |
| SECTION 4/ 54 NOT IN DIRECTORY            |               |      |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 55 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 55 | RECORD NUMBER | 2481 |
| SECTION 4/ 55 NOT IN DIRECTORY            |               |      |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 56 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 56 | RECORD NUMBER | 2734 |
| SECTION 4/ 56 NOT IN DIRECTORY            |               |      |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 4, MT= 91 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 4, MT= 91 | RECORD NUMBER | 2839 |
| SECTION 4/ 91 NOT IN DIRECTORY            |               |      |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 5, MT= 16 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 5, MT= 16 | RECORD NUMBER | 2937 |
| SECTION 5/ 16 NOT IN DIRECTORY            |               |      |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 5, MT= 17 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 5, MT= 17 | RECORD NUMBER | 3187 |
| SECTION 5/ 17 NOT IN DIRECTORY            |               |      |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 5, MT= 22 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 5, MT= 22 | RECORD NUMBER | 3277 |
| SECTION 5/ 22 NOT IN DIRECTORY            |               |      |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 5, MT= 28 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5131, MF= 5, MT= 28 | RECORD NUMBER | 3370 |
| SECTION 5/ 28 NOT IN DIRECTORY            |               |      |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5131, MF= 5, MT= 91 (0): Directory (b)*

• psyche Warnings:

1. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.40786E-04 / DENSITY 8.69320E+01 SHOULD BE 9.92214E+01 (0): URR dens. (a)*

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.40786E-04  
DENSITY 8.69320E+01 SHOULD BE 9.92214E+01

2. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 2.69988E-04 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.32680E-04 / DENSITY 6.80590E+01 SHOULD BE 7.71722E+01 (0): URR dens. (a)*

FILE 2

SECTION 151

ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 2.69988E-04  
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.32680E-04  
DENSITY 6.80590E+01 SHOULD BE 7.71722E+01

3. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.46930E-04 / DENSITY 5.50480E+01 SHOULD BE 6.31409E+01 (0): URR dens. (a)*

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.46930E-04  
DENSITY 5.50480E+01 SHOULD BE 6.31409E+01

4. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.60005E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 6.93259E-05 / DENSITY 1.28910E+02 SHOULD BE 1.24908E+02 (0): URR dens. (a)*

FILE 2

SECTION 151

ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.60005E-05  
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 6.93259E-05  
DENSITY 1.28910E+02 SHOULD BE 1.24908E+02

5. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.61346E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.60008E-05 / DENSITY 8.49320E+01 SHOULD BE 8.92200E+01 (0): URR dens. (a)*

FILE 2

SECTION 151

ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.61346E-05  
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.60008E-05  
DENSITY 8.49320E+01 SHOULD BE 8.92200E+01

6. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.58405E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.60002E-05 / DENSITY 6.60590E+01 SHOULD BE 6.93933E+01 (0): URR dens. (a)*

```
FILE 2
SECTION 151
ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.58405E-05
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.60002E-05
DENSITY 6.60590E+01 SHOULD BE 6.93933E+01
```

7. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.60000E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.59991E-05 / DENSITY 5.40480E+01 SHOULD BE 5.67764E+01 (0): URR dens. (a)*

```
FILE 2
SECTION 151
ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.60000E-05
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.59991E-05
DENSITY 5.40480E+01 SHOULD BE 5.67764E+01
```

8. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.59979E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.59998E-05 / DENSITY 4.57330E+01 SHOULD BE 4.80415E+01 (0): URR dens. (a)*

```
FILE 2
SECTION 151
ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.59979E-05
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.59998E-05
DENSITY 4.57330E+01 SHOULD BE 4.80415E+01
```

- recent Warnings:

1. Statistical weight of certain L values were incorrect  
*0: RRR goof (a)*

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [713 more lines]
```

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination  
*resonances / resolved (Error # 1): missingResonanceChannel*

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 2.0 and S = 2.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.0 and S = 2.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 3.0 and S = 2.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 3.0 and S = 3.0 for "capture"
... plus 1 more instances of this message
```



2. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 0: total (Error # 0): CS Sum.*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.18%

- fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels  
*resonances / resolved / MultiLevel\_BreitWigner (Error # 0): badSpinStatisticalWeights*

WARNING: The spin statistical weights for L=1 sums to 2.0, but should sum to 3.0. You have too few channels for re

2. Calculated and tabulated Q values disagree.  
*reaction label 8: n[multiplicity:'2'] + Sb122 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -7469263.094558716 eV vs -8.9672e6 eV!

3. Energy range of data set does not match cross section range  
*reaction label 8: n[multiplicity:'2'] + Sb122 / Product: n / Distribution: / uncorrelated - angular - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9040801.0 -> 20000000.0) vs (9040800.0 -> 20000000.0)

4. Energy range of data set does not match cross section range  
*reaction label 8: n[multiplicity:'2'] + Sb122 / Product: n / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9040801.0 -> 20000000.0) vs (9040800.0 -> 20000000.0)

5. Calculated and tabulated Q values disagree.  
*reaction label 9: n[multiplicity:'3'] + Sb121 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -14275644.210495 eV vs -1.5774e7 eV!

6. Calculated and tabulated Q values disagree.  
*reaction label 10: n + H1 + Sn122 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -5071142.224395752 eV vs -6.566e6 eV!

7. Energy range of data set does not match cross section range  
*reaction label 10: n + H1 + Sn122 / Product: n / Distribution: / uncorrelated - angular - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (6619901.0 -> 20000000.0) vs (6619900.0 -> 20000000.0)

8. Energy range of data set does not match cross section range  
*reaction label 10: n + H1 + Sn122 / Product: n / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (6619901.0 -> 20000000.0) vs (6619900.0 -> 20000000.0)

9. Calculated and tabulated Q values disagree.  
*reaction label 11: Sb124 + gamma (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 7963487.603118896 eV vs 6.4672e6 eV!

10. Calculated and tabulated Q values disagree.  
*reaction label 12:  $n + \text{He4} + \text{In119}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -2448545.028488159 eV vs -3.9143e6 eV!

11. Calculated and tabulated Q values disagree.  
*reaction label 13:  $\text{H1} + \text{Sn123-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 874699.5406036377 eV vs -620490. eV!

12. Calculated and tabulated Q values disagree.  
*reaction label 14:  $\text{H2} + \text{Sn122-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -2846576.123458862 eV vs -4.3415e6 eV!

13. Calculated and tabulated Q values disagree.  
*reaction label 15:  $\text{H3} + \text{Sn121-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -5402534.142120361 eV vs -6.8979e6 eV!

14. Calculated and tabulated Q values disagree.  
*reaction label 16:  $\text{He4} + \text{In120-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 3653353.660186768 eV vs 2040910. eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (0): GROUPE/conver (0)*

---message from conver---cannot do complete particle production for mt= 16  
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (1): GROUPE/conver (0)*

---message from conver---cannot do complete particle production for mt= 17  
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (2): GROUPE/conver (0)*

---message from conver---cannot do complete particle production for mt= 22  
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 28  
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 91  
only mf4/mf5 provided